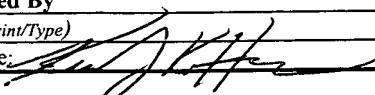


| FEE TRANSMITTAL<br>for FY 2001  |                 |                       |                 |   | Complete if Known           |                  |              |          |  |          |
|---|-----------------|-----------------------|-----------------|---|-----------------------------|------------------|--------------|----------|--|----------|
| <i>Patent fees are subject to annual revision.</i>  |                 |                       |                 |   |                             |                  |              |          |  |          |
|   |                 |                       |                 |   |                             |                  |              |          |  |          |
|   |                 |                       |                 |   |                             |                  |              |          |  |          |
|   |                 |                       |                 |   |                             |                  |              |          |  |          |
|   |                 |                       |                 |   |                             |                  |              |          |  |          |
| Total amount of payment   |                 | (\$170.00)            |                 |   | FEE CALCULATION (CONTINUED) |                  |              |          |  |          |
| <b>METHOD OF PAYMENT (CHECK ONE)</b>  |                 |                       |                 |   |                             |                  |              |          |  |          |
| 1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:<br>Deposit Account Number 08-3425<br>Deposit Account Human Genome Sciences, Inc.<br>Name |                 |                       |                 |   | 3. ADDITIONAL FEES          |                  |              |          |  |          |
|   |                 |                       |                 |   | Large Entity                | Small Entity     |              |          |  |          |
|   |                 |                       |                 |   | Fee Code                    | Fee (\$)         | Fee Code     | Fee (\$) | Fee Description  | Fee Paid |
|   |                 |                       |                 |   | 105                         | 130              | 205          | 65       | Surcharge - late declaration fee                       | \$130.00 |
|   |                 |                       |                 |   | 127                         | 50               | 227          | 25       | Surcharge - late provisional filing fee or cover sheet |          |
|   |                 |                       |                 |   | 139                         | 130              | 139          | 130      | Non-English specification                              |          |
|   |                 |                       |                 |   | 147                         | 2,520            | 147          | 2,520    | For filing a request for <i>ex parte</i> reexamination |          |
|   |                 |                       |                 |   | 112                         | 920              | 112          | 920      | Requesting publication of SIR prior to Examiner action |          |
|   |                 |                       |                 |   | 113                         | 1,840            | 113          | 1,840    | Requesting publication of SIR after Examiner action    |          |
|   |                 |                       |                 |   | 115                         | 110              | 215          | 55       | Extension for reply within first month                 |          |
|   |                 |                       |                 |   | 116                         | 390              | 216          | 195      | Extension for reply within second month                |          |
|   |                 |                       |                 |   | 117                         | 890              | 217          | 445      | Extension for reply within third month                 |          |
|   |                 |                       |                 |   | 118                         | 1,390            | 218          | 695      | Extension for reply within fourth month                |          |
|   |                 |                       |                 |   | 128                         | 1,890            | 228          | 945      | Extension for reply within fifth month                 |          |
|   |                 |                       |                 |   | 119                         | 310              | 219          | 155      | Notice of Appeal                                       |          |
|   |                 |                       |                 |   | 120                         | 310              | 220          | 155      | Filing a brief in support of an appeal                 |          |
|   |                 |                       |                 |   | 121                         | 270              | 221          | 135      | Request for oral hearing                               |          |
|   |                 |                       |                 |   | 138                         | 1,510            | 138          | 1,510    | Petition to institute a public use proceeding          |          |
| <b>FEE CALCULATION</b>  |                 |                       |                 |   |                             |                  |              |          |  |          |
| <b>1. BASIC FILING FEE</b>  |                 |                       |                 |   |                             |                  |              |          |  |          |
| Large Fee Code  | Entity Fee (\$) | Small Entity Fee Code | Entity Fee (\$) | Fee Description   | Fee Paid                    |                  |              |          |  |          |
| 101   | 710             | 201                   | 355             | Utility filing fee  |                             |                  |              |          |  |          |
| 106   | 320             | 206                   | 160             | Design filing fee   |                             |                  |              |          |  |          |
| 107   | 490             | 207                   | 245             | Plant filing fee  |                             |                  |              |          |  |          |
| 108   | 710             | 208                   | 355             | Reissue filing fee  |                             |                  |              |          |  |          |
| 114   | 150             | 214                   | 75              | Provisional filing fee                                    |                             |                  |              |          |  |          |
| <b>Subtotal (1)</b>   |                 |                       |                 |   | \$                          |                  |              |          |  |          |
| <b>2. EXTRA CLAIM FEES</b>  |                 |                       |                 |   |                             |                  |              |          |  |          |
|   |                 |                       |                 |   | Extra                       | Fee from below   | Fee Paid     |          |  |          |
| Total claims  |                 |                       | - 20**          |   | \$                          |                  |              |          |  |          |
| Indep. claims   |                 |                       | - 3**           |   | \$                          |                  |              |          |  |          |
| Multiple Dependent  |                 |                       |                 |   | \$                          |                  |              |          |  |          |
| Large Fee Code  | Entity Fee (\$) | Small Entity Fee Code | Entity Fee (\$) | Fee Description   |                             |                  |              |          |  |          |
| 103   | 18              | 203                   | 9               | Claims in excess of 20                                    |                             |                  |              |          |  |          |
| 102   | 80              | 202                   | 40              | Independent claims in excess of 3                         |                             |                  |              |          |  |          |
| 104   | 270             | 204                   | 135             | Multiple dependent claim                                  |                             |                  |              |          |  |          |
| 108   | 80              | 209                   | 40              | **Reissue independent claims over original patent         |                             |                  |              |          |  |          |
| 110   | 18              | 210                   | 9               | **Reissue claims in excess of 20 and over original patent |                             |                  |              |          |  |          |
| <b>Subtotal (2)</b>   |                 |                       |                 |   | (\$)                        |                  |              |          |  |          |
|   |                 |                       |                 |   | Complete (if applicable)    |                  |              |          |  |          |
| Submitted By<br>Name (Print/Type)<br>Signature:    |                 |                       |                 |   | Registration No.:           | Telephone        | 301-309-8504 |          |  |          |
|   |                 |                       |                 |   | Date                        | February 5, 2001 |              |          |  |          |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

#7

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Ruben et al.

Application Serial No.: 09/661,453

Group Art Unit: Not assigned

Filed: September 13, 2000

Examiner: Not assigned

For: **27 Human Secreted Proteins**

Attny Docket No.: PZ038P1



**REQUEST FOR CORRECTION OF FILING RECEIPT**

Commissioner for Patents  
Washington, D.C. 20231

Attn: Office of Initial Patent  
Examination's Customer Service Center

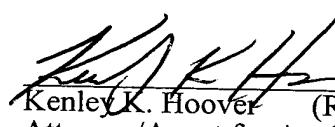
Sir:

Applicant(s) hereby request(s) that a corrected Official Filing Receipt be issued and sent to the undersigned representative. Specifically, the following correction to the Official Filing Receipt is requested: Under "Continuing Data as Claimed by Applicant" please show the International Application Number correctly as PCT/US00/06783. In support of the above request, a photocopy of the instant Official Filing Receipt is enclosed with the corrections noted in red. It is requested that a corrected Official Filing Receipt be issued, and sent to the undersigned at the earliest possible time.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3425. A duplicate copy of this pleading is enclosed.

Respectfully submitted,

Date: February 5, 2001

  
Kenley K. Hoover (Reg. No. 40,302)  
Attorney/Agent for Applicant

Human Genome Sciences, Inc.  
9410 Key West Avenue  
Rockville, MD 20850  
(301) 309-8504

Enclosures: Duplicate filing receipt with corrections  
Duplicate of this sheet



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
 UNITED STATES PATENT AND TRADEMARK OFFICE  
 WASHINGTON, D.C. 20231  
 www.uspto.gov

| APPLICATION NUMBER | FILING DATE | GRP ART UNIT | FIL FEE REC'D | ATTY.DOCKET.NO | DRAWINGS | TOT CLAIMS | IND CLAIMS |
|--------------------|-------------|--------------|---------------|----------------|----------|------------|------------|
| 09/661,453         | 09/13/2000  | 1641         | 822           | PZ038P1        |          | 23         | 4          |

## FILING RECEIPT

Human Genome Sciences Inc  
 9410 Key West Avenue  
 Rockville, MD 20878

**RECEIVED**

**D**

DEC 11 2000

*KKH SH DS*

Date Mailed: 12/06/2000



\*OC000000005600653\*

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Steven M. Ruben, Olney, MD ;  
 Jian Ni, Rockville, MD ;  
 Reinhard Ebner, Gaithersburg, MD ;  
 Craig A. Rosen, Laytonsville, MD ;  
 Yanggu Shi, Gaithersburg, MD ;  
 Charles E. Birse, North Potomac, MD ;  
 Kimberly A. Florence, Rockville, MD ;  
 George Komatsoulis, Silver Spring, MD ;  
 David W. LaFleur, Washington, DC ;  
 Paul A. Moore, Germantown, MD ;  
 Henrik Olsen, Gaithersburg, MD ;  
 Paul Young, Gaithersburg, MD ;



## Continuing Data as Claimed by Applicant

THIS APPLICATION IS A CIP OF PCT/US00/03783 03/16/2000  
 WHICH CLAIMS BENEFIT OF 60/125,055 03/18/1999.

## Foreign Applications

If Required, Foreign Filing License Granted 12/06/2000

## Title

27 Human secreted proteins

Preliminary Class

435

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Data entry by : GARNETT, SANDRA

Team : OIPE

Date: 12/06/2000





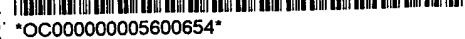
## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
 UNITED STATES PATENT AND TRADEMARK OFFICE  
 WASHINGTON, D.C. 20231  
 www.uspto.gov

| APPLICATION NUMBER | FLING/RECEIPT DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NUMBER |
|--------------------|--------------------|-----------------------|------------------------|
| 09/661,453         | 09/13/2000         | Steven M. Ruben       | PZ038P1                |

Human Genome Sciences Inc  
 9410 Key West Avenue  
 Rockville, MD 20878

## FORMALITIES LETTER



\*OC0000000560654\*



Date Mailed: 12/06/2000

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):
  - This application clearly fails to comply with the requirements of 37 CFR 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-1123
- For CRF Submission Help, call (703) 308-4212
- PatentIn Software Program Support
- - For Technical Assistance, call (703) 287-0200
- - To Purchase PatentIn Software, call (703) 306-2600

- The balance due by applicant is \$ 130.

02/07/2001 ETULU1 00000089 083425 00661453

01 FC:105 130.00 CH

*A copy of this notice **MUST** be returned with the reply.*

*J. Garnett*

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEb 05 2001

SECTOR

S-#4

In re application of: Ruben et al.

Application Serial No.: 09/661,453

Group Art Unit: Not assigned

Filed: September 13, 2000

Examiner: Not assigned

For: **27 Human Secreted Proteins**

Attny Docket No.: PZ038P1

**RESPONSE TO NOTICE TO FILE MISSING PARTS**

Assistant Commissioner For Patents  
BOX MISSING PARTS  
Washington, D.C. 20231

Sir:

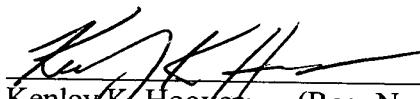
In response to the Notice to File Missing Parts dated December 6, 2000, submitted herewith is an executed Declaration and Power of Attorney for entry into the above-referenced application.

As per Applicant's telephone conference with Mr. Mark Spencer from the Patent and Trademark Office, the Sequence Listing as originally filed with the current application is in full compliance with the requirements of 37 CFR 1.821-1.825. Therefore, no substitute Sequence Listing is submitted herewith.

The Commissioner is hereby authorized to charge the required fee of \$130.00, and any other fee deemed necessary, to Deposit Account No. 08-3425.

Respectfully submitted,

Date: February 5, 2001

  
Kenley K. Hoover (Reg. No. 40,302)  
Attorney/Agent for Applicants

**Human Genome Sciences, Inc.**  
9410 Key West Avenue  
Rockville, Maryland 20850  
301-309-8504 (telephone)

KKH/ur